Fig. 1

SEQ ID NO: 1

AGGAAGCCTCAAGACGCGGAGCAGCGGCAGGAAGGAGCCCCGGCAGC

CCGGAGGAGCATGGGCACCTTGCGGGATTTACAGTACGCGCTCCAGGA

GAAGATCGAGGAGCTGAGGCAGCGGGATGCTCTCATCGACGAGCTGGA

GCTGGAGTTGGATCAGAAGGACGAACTGATCCAGAAGCTGCAGAACGA

GCTGGACAAGTACCGCTCGGTGATCCGACCAGCCACCCAGCAGGCGCA

GAAGCAGAGCGCGAGCACCTTGCAGGGCGAGCCGCGCACCAAGCGGCA

GGCGATCTCCGCCGAGCCCACCGCCTTCGACATCCAGGATCTCAGCCA

TGTGACCCTGCCCTTCTACCCCAAGAGCCCACAGTCCAAGGATCTTAT

AAAGGAAGCTATCCTTGACAATGACTTTATGAAGAACTTGGAGCTGTC

GCAGATCCAGGAGATTGTGGATTGTATGTACCCGGTGGAGTATGGCAA

GGACAGTTGCATCATCAAAGAAGGAGACGTGGGGTCACTGGTGTATGT

CATGGAAGATGGTAAGGTTGAAGTTACAAAGAAGGTGTGAAGTTGTG

TACCATGGGTCCAGGAAAAGTGTTTGGGGAATTGGCTATTCTTTACAA

CTGTACCCGGACAGCGACCGTCAAGACTCTTGTAAATGTAAAACTCTG

GGCCATTGATCGACAATGTTTTCAAACAATAATGATGAGGACAGGACT

CATCAAGCATACCGAGTATATGGAATTTTTAAAAAGCGTTCCAACATT

CCAGAGCCTTCCTGAAGAGATCCTCAGCAAGCTTGCTGATGTCCTTGA

AGAGACCCACTATGAAAATGGAGAATATATTATCAGGCAAGGTGCAAG

AGGGGACACCTTCTTTATCATCAGCAAAGGAACGGTAAATGTCACTCG

TGAAGACTCACCGAGTGAAGACCCAGTCTTTCTTAGAACTTTAGGAAA

AGGAGACTGGTTTGGAGAGAAAGCCTTGCAGGGGGAAGATGTGAGAAC

AGCAAACGTAATTGCTGCAGAAGCTGTAACCTGCCTTGTGATTGACAG

AGACTCTTTTAAACATTTGATTGGAGGGCTGGATGATGTTTCTAATAA

AGCATATGAAGATGCAGAAGCTAAAGCAAAATATGAAGCTGAAGCGGC

TTTCTTCGCCAACCTGAAGCTGTCTGATTTCAACATCATTGATACCCT

TGGAGTTGGAGGTTTCGGACGAGTAGAACTGGTCCAGTTGAAAAGTGA

AGAATCCAAAACGTTTGCAATGAAGATTCTCAAGAAACGTCACATTGT

GGACACAAGACAGCAGGAGCACATCCGCTCAGAGAAGCAGATCATGCA

Fig. 1 (continued)

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GGGGGCTCATTCCGATTTCATAGTGAGACTGTACAGAACATTTAAGGA
CAGCAAATATTTGTATATGTTGATGGAAGCTTGTCTAGGTGGAGAGCT
CTGGACCATTCTCAGGGATAGAGGTTCGTTTGAAGATTCTACAACCAG
ATTTTACACAGCATGTGTGGTAGAAGCTTTTGCCTATCTGCATTCCAA
AGGAATCATTTACAGGGACCTCAAGCCAGAAATCTCATCCTAGATCA
CCGAGGTTATGCCAAACTGGTTGATTTTGGCTTTGCAAAGAAAATAGG
ATTTGGAAAGAAACATGGACTTTTGTGGGACTCCAGAGTATGTAGC
CCCAGAGATCATCCTGAACAAAGGCCATGACATTTCAGCCGACTACTG
GTCACTGGGAATCCTAATGTATGAACTCCTGACTGGCAGCCCACCTTT
CTCAGGCCCAGATCCTATGAAAACCTATAACATCATATTGAGGGGGAT
TGACATGATAGAATTTCCAAAGAAGATTGCCAAAAATGCTGCTAATTT
AATTAAAAAACTATGCAGGGACAATCCATCAGAAGATTAGGGAATTT
GAAAAATGGAGTAAAAGACATTCAAAAGCACAAATGGTTTGAGGGCTT
TAACTGGGAAGGCTTAAGAAAAGGTACCTTGACACCTCCTATAATACC
AAGTGTTGCATCACCCACAGACACAAGTAATTTTGACAGTTTCCCTGA
GGACAACGATGAACCACCACCTGATGACAACTCAGGATGGGATATAGA
CTTCTAATGTATTTCTCTTACCTGCTTCTGCCTTGCTGAAGACAGCTT
TTTCTGAGACACAGCTGCCAGCAAACCTGAGGGAAAGAGAGAAGATTA
GTGCTCGGGGTCACCATGATGCCTTTGATCGATGCTGCTCCAGTAACT
ACAGTGGCATTAGGACTTATCGCTTAGATGACAATAGTGCTCTTTACA
TGTTTTCTGTTTGAACCTAAAATAGCAGTTGACATGGTGGTCCTGAAG
CAAAGCCTTTCACCAGTAAAGAGATGTTTTCTATTGTTGCAATGACCT
TGCTTTGCTCTGATTATAATTTGAAAGACTGTAGGAAACACTTCAATG
TAGTATAAGAGTCTGTACCTTGCTGGAATATTCAAGAAGATGAAAGAA
TAATATATTGGGTACAATAGATTACTATGGTACAGAACTGGGCTATT
CCCTTTCTTCAAGTGAAGGCTGTGGGATCTATTACAGCTGCAGGCCGG
TGTATATACCATACAAAGAGGACCACACATCTGTTGGTCACAGAGTT
CATGTCACACCAGTGCTAGAAGTTTCATGATTTTATTTCCCAGCAGTG
CTGATGACAAGACTGAATGTTACCTTTTCTTTCTGACAGATTTTAAAA
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Fig. 1 (continued)

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ATTGATATGATAAAAGCACAACTGCTATAGATTCTGCTGAGACCTCTC
ATAGTAGGTATATATGAGTTTTCACAGAAGACTGAAAAATAATGCATG
ATATTTGTTTGTTTTTTTTGATAAATTGGCATGACAGAGTGGGGAAAA
AAAGCAATTCACAAACCATTTCATATTTTTTAAAATATTGTGCTTAA
AGATGGTCCTGGAAGTAAATGACTAGCAGCCAATTGGTTTTACTTAAC
ATACCCTCAAACTGAGGCTTAAAGTATTCCCTTTTATAAAAATAAATG
CTTGGGGTAGGGTGGAGTGGGGAGGGATTAAAACCCATCCAAAAAATA
AATAAAAACTATATAGGTGCTATGTATATCTTTCATCTGTAAATGTCA
GTGTCTGAACAGCAACACAAATTCAAATCATTATACGTGTAGCCAGAA
ACTCAAGCATTTTCACTAAAGTTATTAAACCAAACTCCTGTCCAATTT
GACTTATACAACATAGTCAGTCTAGAGTTGAGAGACAAAGGTAATTAT
AAACCTATTTGAACTAGCTTCTTGTCTTAGGCCTGAACCAAAAAACAA
CAAACAAACAAAAAACAAGAATGAAAACAGAAATAAAAGAAGTAGAA
AAGACAAAGAAAGAAAGCCCAAAGTCAAAGTTGTTAATATTTACAGGT
TTACCAGATCTGGAACATTACTTATTTGAGGTCAGAGAACAAAACAAG
AACCTGGCCAGGTGTTGATTACCTTTTAGTGAATAAGCTGAGTCCATA
TACTTGTCTAACTAAGAAAGCAGTACAGAGGAAAACAGGAACCTGATT
TTTTTAAAATAAATTTTAAATAAAATAGAATTACTACAATTCTGCAAT
TTCATACTACCTAAAAAAGACTAGATTTGAAAATGTCAAGCTGATTTA
CTTTATTCACATGGAGAAAGAATCCACAAATTAAACTGAGTCCTTCA
CTGGCATGCCAGTTGACTATTATTAGCTGTCATAAGTAACCCCG
```

Fig. 2

SEQ ID NO: 2

MGTLRDLQYALQEKIEELRQRDALIDELELELDQKDELIQKLQNELDK

YRSVIRPATQQAQKQSASTLQGEPRTKRQAISAEPTAFDIQDLSHVTL

PFYPKSPQSKDLIKEAILDNDFMKNLELSQIQEIVDCMYPVEYGKDSC

IIKEGDVGSLVYVMEDGKVEVTKEGVKLCTMGPGKVFGELAILYNCTR

TATVKTLVNVKLWAIDRQCFQTIMMRTGLIKHTEYMEFLKSVPTFQSL

PEEILSKLADVLEETHYENGEYIIRQGARGDTFFIISKGTVNVTREDS

PSEDPVFLRTLGKGDWFGEKALQGEDVRTANVIAAEAVTCLVIDRDSF

KHLIGGLDDVSNKAYEDAEAKAKYEAEAAFFANLKLSDFNIIDTLGVG

GFGRVELVQLKSEESKTFAMKILKKRHIVDTRQQEHIRSEKQIMQGAH

SDFIVRLYRTFKDSKYLYMLMEACLGGELWTILRDRGSFEDSTTRFYT

ACVVEAFAYLHSKGIIYRDLKPENLILDHRGYAKLVDFGFAKKIGFGK

KTWTFCGTPEYVAPEIILNKGHDISADYWSLGILMYELLTGSPPFSGP

DPMKTYNIILRGIDMIEFPKKIAKNAANLIKKLCRDNPSERLGNLKNG

VKDIQKHKWFEGFNWEGLRKGTLTPPIIPSVASPTDTSNFDSFPEDND

EPPPDDNSGWDIDF

Fig. 3

SEQ ID NO: 3

5'- agccgactactggtcactgg -3'

Fig. 4

SEQ ID NO: 4

5'- gatctgggcctgagaaaggt -3'

Fig. 5

SEQ ID NO: 5

5'- tgtatgaactcctgactggcagccc -3'